

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: William J. Carroll, et al.
Serial No: 10/717,925
Filed: November 21, 2003
For: : Surface Stimulation for Tremor Control

GAU: 3762
Confirmation No. 7556
Examiner: Unknown

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Applicant(s) wish to disclose the following information.

REFERENCES

- ☒ The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- ☐ Attached is a copy of applicant's pending application(s) or issued patent(s) which may be related to the present application. These documents are listed on form PTO-1449, also attached.
- ☐ A check is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

- ☐ Each item of information contained in this information disclosure statement was cited for the first time in any communication from a foreign patent office in any counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited for the first time in any communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.
- ☐ This Information Disclosure Statement is being filed within three months of the filing date of the subject patent application.
- ☒ This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits.

PETITION

- ☐ Applicant(s) hereby request consideration of the attached information. A check is attached in the amount of the Petition fee required under 37 CFR §1.17(i)(1).

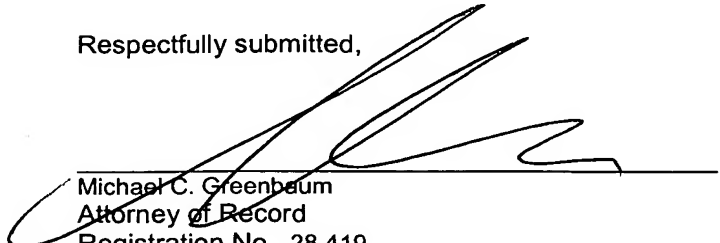
DEPOSIT ACCOUNT

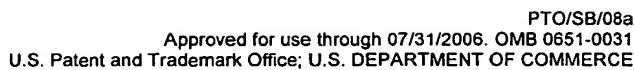
- ☒ Please charge any additional fees for the papers being filed herewith and for which no check is enclosed herewith, or credit any overpayment to deposit account number 23-2185. A duplicate copy of this sheet is enclosed.

Blank Rome LLP
600 New Hampshire Avenue, N.W.
Washington, DC 20037
Tel: (202) 772-5800
Fax (202) 572-8398
Customer No.: 27557

Date: August 3, 2004

Respectfully submitted,


Michael C. Greenbaum
Attorney of Record
Registration No. 28,419



Substitute for form 1449A/PTO

(Use as many sheets as necessary)

Complete if Known

Application Number	10/717,925
Filing Date	November 21, 2003
First Named Inventor	William J. Carroll
Art Unit	3762
Examiner Name	Unknown
Attorney Docket Number	000309.00051

Sheet	1	of	2
-------	---	----	---

U. S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				

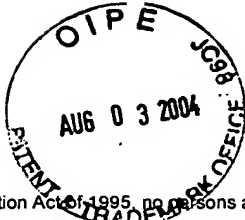
Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS.

SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/717,925
Filing Date	November 21, 2003
First Named Inventor	William J. Carroll
Art Unit	3762
Examiner Name	Unknown
Attorney Docket Number	000309.00051

Sheet

2

of

2

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		MOHAMED A. HAMZA, M.D., et al., Effect of the Duration of Electrical Stimulation on the Analgesic Response in Patients with Low Back Pain, Anesthesiology, December 1999, pp. 1622-1627, Vol. 91, No. 6	
		EL-SAYED A. GHONAME, M.D., et al., The Effect of Stimulus Frequency on the Analgesic Response to Percutaneous Electrical Nerve Stimulation in Patients with Chronic Low Back Pain, Anesthesia & Analgesia, April 1999, pp. 841-846, Vol. 88, No. 4	
		RICHARD E. SEROUSSI, MD, et al., Effectiveness of Percutaneous Neuromodulation Therapy for Patients with Chronic and Severe Low Back Pain, 2003, pp. 22-30, Vol. 3, Issue 1, Pain Practice	
		EL-SAYED A. CHONAME, MD, et al., Percutaneous Electrical Nerve Stimulation for Low Back Pain, JAMA, March 3, 1999, Vol. 281, No. 9	
		ANDREW J. ROBINSON, Clinical Electrophysiology, Electrotherapy and Electrophysiologic Testing, pp. cover, 285, 288-290, Second Edition, Williams & Wilkins	
		M.I. JOHNSON, et al., An in-depth study of long-term users of transcutaneous electrical nerve stimulation (TENS). Implications for clinical use of TENS, Pain 41, 1991, pp. 221-229, Elsevier Science Publishers B.V.	
		J.S. HAN, et al., Effect of low- and high-frequency TENS on Met-enkephalin-Arg-Phe and dynorphin A immunoreactivity in human lumbar CSF, 1991, pp. 295-298, Elsevier Science Publishers B.V.	
		ROGER M. NELSON, et al., Clinical Electrotherapy, third edition, Appleton & Lange, Stamford, Connecticut	
		Vertis Percutaneous Neuromodulation Therapy (PNT), Peer Review Network, Inc., PRN Newsletter, November 2002, Vol. 9, No. 6., pp. 1-5	
		PRIYA GOPALKRISHNAN, MS, et al., Effect of Varying Frequency, Intensity, and Pulse Duration of Transcutaneous Electrical Nerve Stimulation on Primary Hyperalgesia in Inflamed Rats, Arch Phys Med Rehabil, Vol. 81, July 2000, pp. 984-990	
		M.I. JOHNSON, et al., Analgesic effects of different frequencies of transcutaneous electrical nerve stimulation on cold-induced pain in normal subjects, Pain 39 (1989), pp. 231-236, Elsevier Science Publishers B.V.	
		SERGE MARCHAND, M.Sc., et al., Modulation of Heat Pain Perception by High Frequency Transcutaneous Electrical Nerve Stimulation (TENS), The Clinical Journal of Pain, Vol. 7, No. 2, 1991, pp. 122-129	

Examiner
SignatureDate
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.